

Title (en)
Reinforcement of the sectioning mechanism of a multi-modular electrical appliance such as a circuit breaker

Title (de)
Verstärkung des Trennmechanismus eines multimodulären Elektrogerätes vom Typ Trennschalter

Title (fr)
Renforcement du mécanisme de sectionnement d'un appareil électrique multimodulaire du type disjoncteur.

Publication
EP 2575151 B1 20171115 (FR)

Application
EP 11306242 A 20110929

Priority
EP 11306242 A 20110929

Abstract (en)
[origin: EP2575151A1] The apparatus comprises modules, where each module comprises a control lever cooperating with a moveable contact holder (5a-5d) driven by a mechanical lock and by a unit for restoring the contact holder towards or away from a fixed contact. The control levers are linked by a single operating member. Rigid linking units are provided between the adjacent contact holders. Each of the rigid linking unit comprises a rigid male part belonging to the first contact holder cooperating without any degree of freedom with a female part belonging to the contact holder adjacent to the first contact holder. The apparatus comprises modules, where each module comprises a control lever cooperating with a moveable contact holder (5a-5d) driven by a mechanical lock and by a unit for restoring the contact holder towards or away from a fixed contact. The control levers are linked by a single operating member. Rigid linking units are provided between the adjacent contact holders. Each of the rigid linking unit comprises a rigid male part belonging to the first contact holder cooperating without any degree of freedom with a female part belonging to the contact holder adjacent to the first contact holder. The male parts are sectile, and comprise strips (10a-10d) fitted in slits (11a-11d) consisting of the female parts. The rigid linking units are localized and leveled with lateral walls of each contact holder. Each contact holder is equipped the sectile strip covering one of the two lateral walls and the slit arranged in the other lateral wall. The sectile strips prolong a pin orthogonally extending from one of the lateral walls. A lower surface of the pin performs a mechanical connection between the apparatus and an adjacent apparatus placed on a same line. The strips are L-shaped and comprise two sectile zones to detach the strips from the contact holders. The first zone is connected to the pin. The second zone is fixed directly at one of the lateral walls.

IPC 8 full level
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CPC (source: EP)
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